

In the Specification

On page 7, line 34, between "such" and "nitric" insert ---as---.

On page 8, line 8, delete "mimicks" and substitute therefor ---mimics---.

In the Claims

Cancel Claims 11 and 14. Amend Claims 5, 10, 13, 15, 16 and 18-23. Add Claims 30-34.

10 / 5. (Amended) A method for treating malaria in a patient, comprising the steps of:
a) isolating the patient's red blood cells;
b) treating the patient's red blood cells with [S-nitrosothiol] S-nitrosocysteine, S-nitrosohomocysteine or S-nitrosocysteinylglycine; and
c) readministering to the patient the red blood cells.

10/2 10. (Amended) A method for making SNO-Hb[FeII]O₂, which is specifically S-nitrosylated on thiol groups, comprising incubating excess [nitrosating agent] low molecular weight S-nitrosothiol with purified hemoglobin in the presence of oxygen.

Q3 13. (Amended) A method for making SNO-Hb[FeII], which is specifically S-nitrosylated on thiol groups, comprising incubating excess [nitrosating agent] low molecular weight S-nitrosothiol with purified hemoglobin in the absence of oxygen.

Q4 15. (Twice Amended) A method for regulating delivery of oxygen and NO, in various redox forms, in a mammal, comprising administering to the mammal an effective amount of a mixture of a low molecular weight thiol or nitrosothiol and hemoglobin or S-nitrosohemoglobin.

16. (Amended) A method for delivering NO in a mammal, comprising administering to the mammal an effective amount of a blood substitute comprising S-nitrosohemoglobin.

18. (Amended) A method for scavenging oxygen free radicals and NO[·] in a mammal, comprising administering to the mammal an effective amount of a blood substitute comprising S-nitrosohemoglobin.

19. (Amended) A method for reducing blood pressure in a mammal, comprising administering an effective amount of SNO-Hb to the mammal.

20. (Twice Amended) A method for treating a disease in a mammal, comprising administering an effective amount of SNO-Hb to the mammal, wherein the disease is selected from the group consisting of heart disease, vascular disease, atherosclerosis, lung disease and inflammation.

21. (Twice Amended) A method for treating a medical condition in a mammal, comprising administering an effective amount of SNO-Hb to the mammal, wherein the medical condition is selected from the group consisting of stroke, angina and acute respiratory distress.

22. (Amended) A method for enhancing the preservation of an excised organ, comprising storing the organ in a solution comprising an effective amount of SNO-Hb(FeII)O₂.

23. (Amended) A method for treating a human with sickle cell anemia comprising administering to the human an effective amount of a preparation comprising SNO-Hb(FeII)O₂.

Add the following claims.

30. A method for regulating delivery of oxygen and NO[·], in various redox forms, in a mammal, comprising administering to the mammal an effective amount of a preparation comprising a low molecular weight thiol or nitrosothiol and S-nitrosohemoglobin.

31. A composition comprising SNO-Hb[FeII]O₂.